SERVICE MANUAL

FISHER

MT-715

Servo Drive
Semi-Automatic Turntable

(EUROPE)

134 085 40

WM-14445

MC-Service

SPECIFICATIONS

TURNTABLE		MT-715
Motor		DC Servo
Drive System		Belt
Wow and Flutter (WRMS)		0.035 %
Rumble (DIN 45539B)		−70 dB
Speed Variation		±0.5 %
Speed Control Range		±3%
Platter Diameter		315 mm
Platter Weight		0.6 kg
Record Speed Selector		33-1/3 rpm/ 45 rpm
Automatic Functions		
	Stop	Yes
	Reject	Yes
Automatic Tonearm Return at End of Record		Yes
Manual Functions		
	Start	Yes
	Stop	Yes
Tonearm Data		
	Resonance	<10 Hz
	Effective Length	222 mm
	Shape	Straight
Bearing Type		
	Horizontal Friction Sensitivity	Thrust 0.15 g
	Vertical Friction Sensitivity	Pivot 0.2 g
Max. Tracking Error		±1.8°
Cueing		Viscous Damped
GENERAL Power Requirements		AC 110 / 220 V (50 Hz)
Power Consumption		4 Watts
Dimensions (W x H x D)		440 x 115 x 360 mm
Weight (approx.)		4 kg

Because its products are subject to continuous improvement, Fisher Corporation reserves the right to modify product designs and specifications without notice and without incurring any obligation.

REPLACING THE CARTRIDGE

When replacing the cartridge, first unfasten the cartridge set screw, then pull the cartridge out gently as shown in Fig. 1. To mount another one, follow in the reverse order.
A pulug in T4P type cartridge should be used with this equipment.

NOTE:
When replacing the cartridge, the top surface of the cartridge must be lined up with the top surface of the tonearm. (Fig. 2).

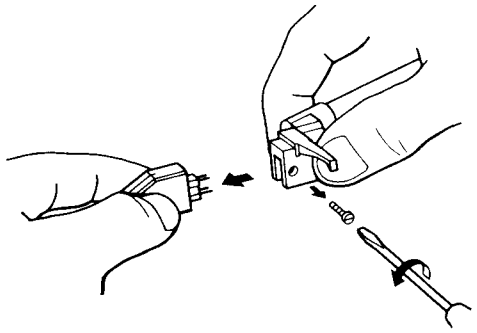


Fig.1

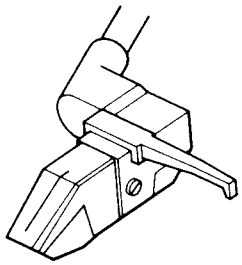


Fig. 2

MECHANICAL ADJUSTMENTS

PICK-UP ARM HEIGHT ADJUSTMENT
When using the cueing lever or the auto-return, perform the pick-up arm height adjustments by turning each adjusting screw as illustrated in (Fig. 3).
Turn the adjusting screw clockwise to raise the Pick-up Arm, and counter-clockwise to lower it.

PICK-UP RETURN POSITION ADJUSTMENT
Insert a screwdriver through the hole located on the plate bottom and under the arm. Turn the cam clockwise to move the return position inwards and counter-clockwise to move it outwards. When the cam is turned fully once, it returns to the original position.

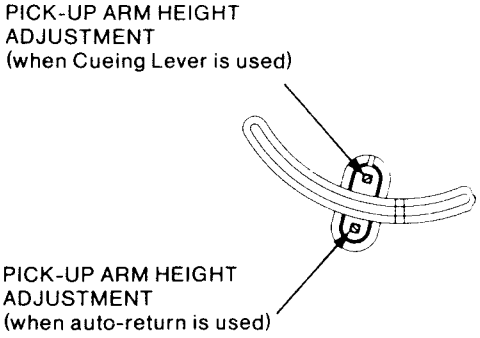
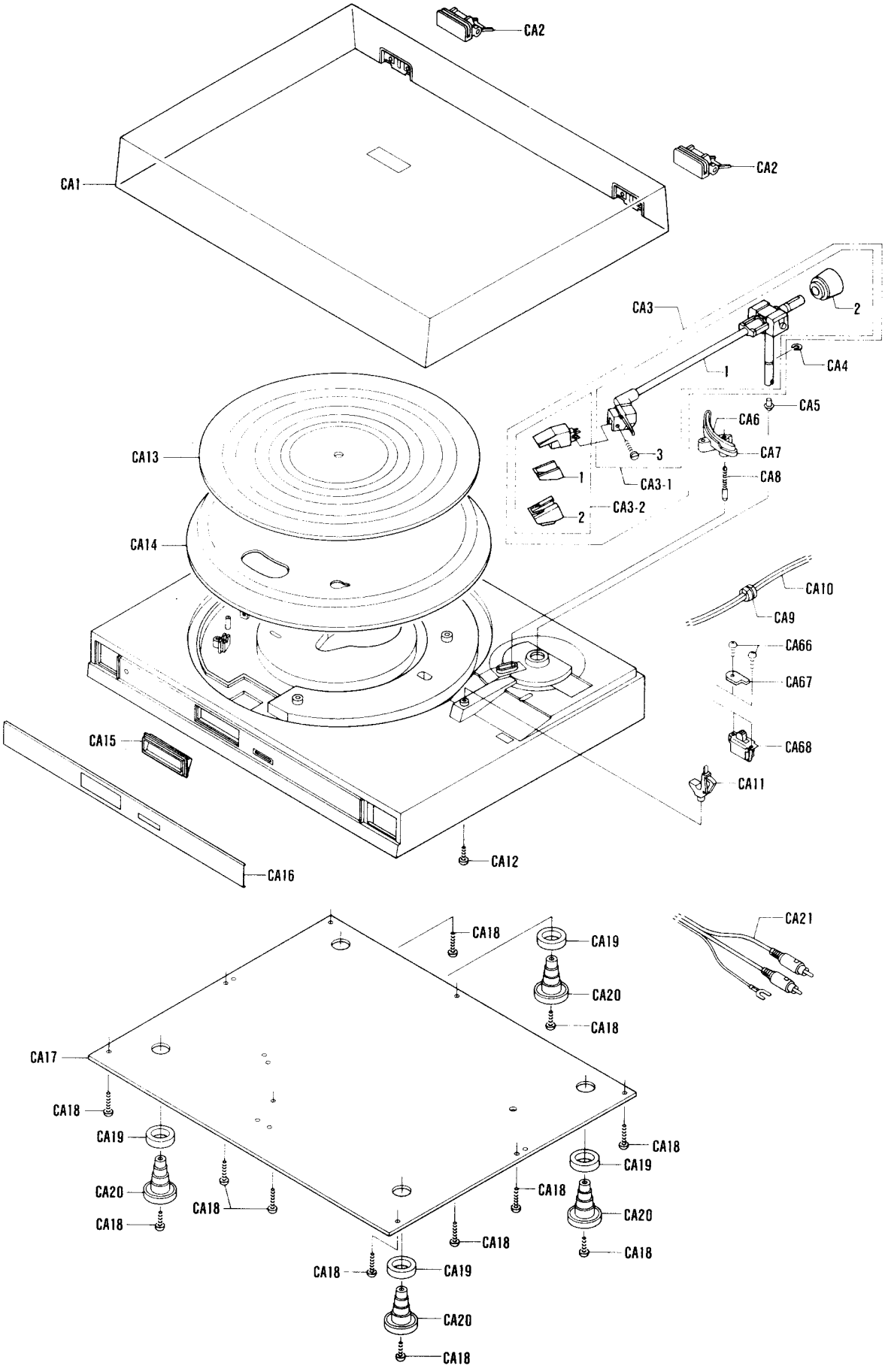
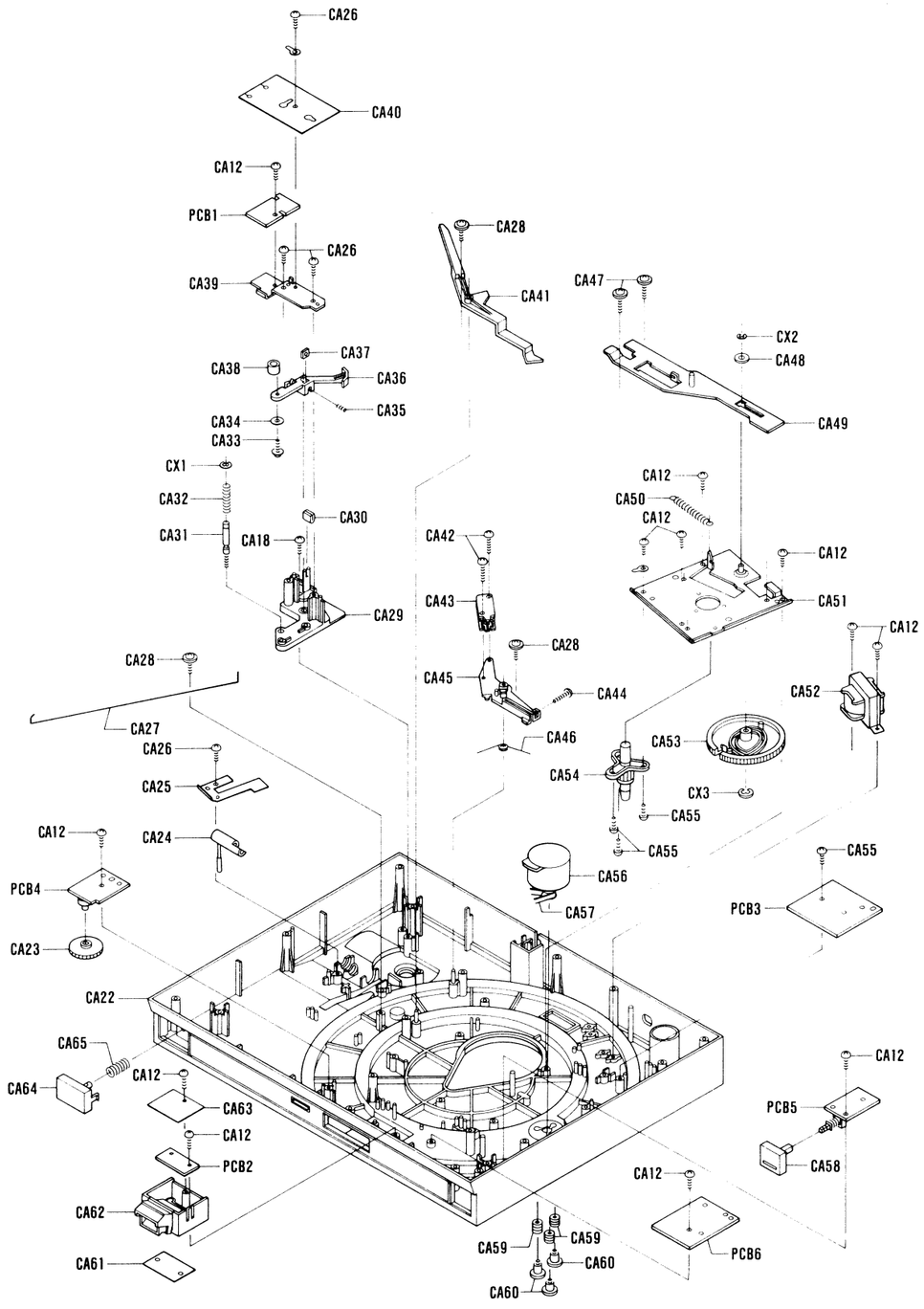


Fig. 3

CABINET & CHASSIS EXPLODED VIEW



CABINET & CHASSIS EXPLODED VIEW (Continued)



PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	PACKAGE		
	131-6-2519-00201	Bag Polyethylene Ind	1
	141-6-1139-96510	Box Corrugate-exp	1
	141-6-2519-16390	Bag Polyethylene-exp	1
	141-6-2519-16490	Bag Polyethylene-exp	1
	141-6-2519-16590	Bag Polyethylene-exp	3
	141-6-2519-20990	Bag Polyethylene-exp	1
	141-6-3119-24000	Pad Front	1
	141-6-3119-24100	Pad Rear	1
	141-6-3119-24201	Pad	1
	141-6-3119-24300	Pad	1
	141-6-3219-00100	Patching Sheet	1
	141-6-4559-03300	Serial No. Sheet	2
	ACCESSORIES		
	131-6-2719-10401	Bag Fan	1
	131-6-4519-15700	Guarantee Cert	1
	134-2-2901-11601	Adapter EP	1
	141-6-4559-03300	Serial No. Sheet	1
	142-6-4119-32410	Explanatory Booklet	1
	CABINET		
	131-2-3608-14100	Cramp Wire	6
	141-2-1449-56236	Name Plate	1
	141-6-4559-03300	Serial No. Sheet	1
	141-6-4729-37603	Stylus Label	1
CA1	141-0-1249-32400	Lid Assy	1
CA2	131-0-2002-17600	Hinge Assy	2
CA3	141-0-6419-01700	Pick-up Assy	1
CA3-1	141-0-6419-01800	Tone Arm Assy	1
1	141-0-6429-00400	Pick-up Arm Assy	1
2	141-0-6439-00400	Pick-up Weight Assy	1
3	101-3-2502-01013	Screw, Cylinder Hd., – M2.0x10	1
CA3-2	4-1579-70070	Cartridge (MG-66)	1
1	4-1579-70080	Stylus (ST-66D)	1
2	141-2-6459-00400	Retainer Needle	1
CA4	131-2-4220-10700	Ring Snap, M4.9x0.6	1
CA5	134-2-4117-10600	Support Shaft	1
CA6	134-2-5205-15400	Cushion	1
CA7	134-2-3310-12200	Support Arm	1
CA8	141-2-4219-30800	Screw	1
CA9	131-2-6111-22900	Bushing	1
CA10	⚠ 4-2432-00071	Power Cord	1
CA11	134-0-6031-12000	Arm Rest Assy	1
CA12	131-2-4201-19502	Screw, Button Hd. Tapping, +M3.0x10	14
CA13	134-2-6102-15702	Mat Turntable	1
CA14	141-2-5229-00302	Turntable	1
CA15	131-2-6308-23200	Filter	1
CA16	141-2-1449-60702	Plate Control	1
CA17	141-2-1259-07001	Plate Bottom	1
CA18	131-2-4201-19503	Screw, Button Hd. Tapping, +M3.0x12	14
CA19	134-2-5205-15300	Cushion	4
CA20	141-2-4459-31600	Cushion	4
CA21	131-0-4004-15003	Wire Shield Assy	1
CA22	141-2-1129-06507	Cabinet	1
CA23	141-2-1639-57600	Knob	1
CA24	141-2-1629-08100	Knob	1
CA25	141-2-8539-50600	Spring Plate	1
CA26	131-2-4201-19501	Screw, Button Hd. Tapping, +M3.0x8	4
CA27	141-2-7359-03000	Rod	1
CA28	131-2-4201-28300	Screw, Button Hd. Tapping, +M3.0x10	3
CA29	141-2-5739-06900	Base Pick-up	1
CA30	134-2-5205-12000	Cushion	1
CA31	134-2-4116-14000	Spindle Lifting	1
CA32	134-2-5101-24700	Spring	1
CA33	131-2-4201-21101	Screw	1

Ref. No.	Part No.	Description	Q'ty
CA34	131-2-4203-17501	Washer	1
CA35	131-2-4201-15202	Screw (Socket)	1
CA36	141-2-7439-36500	Plate Pick-up Fix	1
CA37	141-2-4179-05400	Nut Plate	1
CA38	141-2-7519-63800	Cam	1
CA39	141-2-3519-66400	Plate	1
CA40	141-2-3229-43001	Cover Shield	1
CA41	134-2-4123-21100	Arm	1
CA42	131-2-4201-19505	Screw, Button Hd. Tapping, +M3.0x16	2
CA43	⚠ 4-2319-21995	Switch Micro (Power) [S1]	1
CA44	131-2-4201-13511	Screw, Pan Hd.Tapping, +M3.0x14	1
CA45	134-2-4108-21000	Plate	1
CA46	134-2-5101-26401	Spring	1
CA47	131-2-4201-28302	Screw, +M3.0x14	2
CA48	131-2-4203-95001	Washer, M4.2x10x1	1
CA49	134-0-6035-11700	Return Plate Assy	1
CA50	141-2-8549-21500	Spring	1
CA51	141-0-3129-01800	Unit Plate Assy	1
CA52	⚠ 4-2512-05129	Power Trans [T1]	1
CA53	141-0-5519-11400	Gear Cycling Assy	1
CA54	141-0-7519-03600	Shaft Turntable Complete	1
CA55	131-2-4201-19801	Screw	4
CA56	134-0-5011-03901	Motor Assy [M1]	1
CA57	134-2-6302-11601	Belt	1
CA58	141-2-1659-32600	Knob	1
CA59	134-2-5202-11800	Rubber Cushion	1
CA60	134-2-4201-13600	Screw	3
CA61	134-2-4108-28400	Plate	1
CA62	141-0-1149-12400	Cover(Strobo) Assy	1
CA63	141-2-3229-53600	Cover	1
CA64	141-2-1659-32500	Knob	1
CA65	141-2-8559-06100	Spring	1
CA66	131-2-4201-20300	Screw TP	2
CA67	131-2-7104-00101	Plate Pad Switch	1
CA68	⚠ 4-2312-02650	Switch Slide (Voltage Select) [S3]	1
CX1	112-3-1302-00011	E Ring, M2.0	1
CX2	112-3-1303-00011	E Ring, M3.0	1
CX3	112-3-1304-00011	E Ring, M4.0	1
PCB1	4-1329-79160	Phono P.C.B. Assy	1
PCB2	141-0-1939-04040	Neon Lamp P.C.B. Assy	1
PCB3	141-0-1939-04014	Power Supply P.C.B. Assy	1
PCB4	141-0-1939-04022	Speed Control P.C.B. Assy	1
PCB5	141-0-1939-04033	Speed Switch P.C.B. Assy	1
PCB6	141-0-1939-04004	Power DC P.C.B. Assy	1

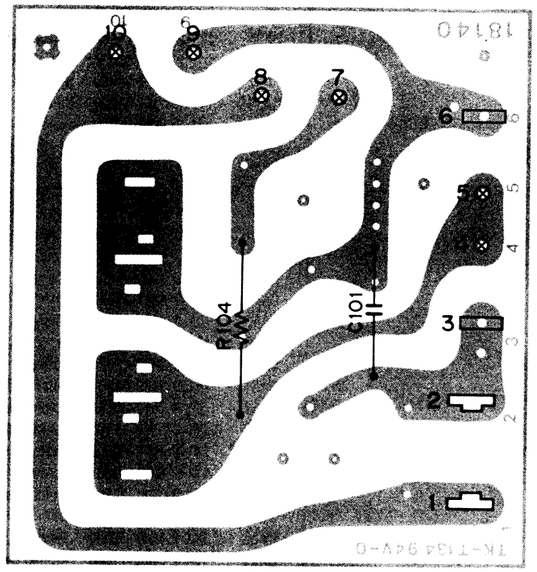
NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

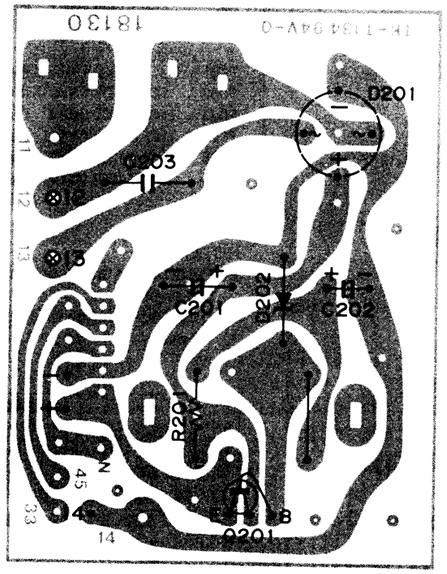
PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

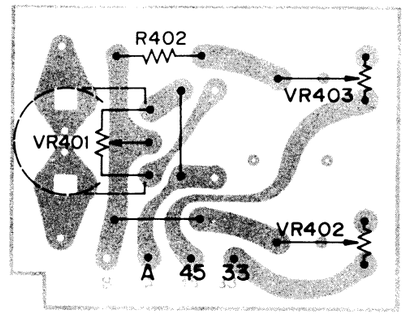
POWER SUPPLY P.C.BOARD
(BOTTOM VIEW)



POWER DC P.C.BOARD
(BOTTOM VIEW)



SPEED CONTROL P.C.BOARD
(BOTTOM VIEW)



PARTS LIST

Ref. No.	Part No.	Description				Q'ty
	PHONO P.C.B. ASSY					
PCB1	4-1329-79160	Phono P.C.B. Assy				1
C1	CC1-0-3500-ZG00C	Ceramic	0.01μF	50V	+80, -20%	1
	NEON LAMP P.C.B. ASSY					
PCB2	141-0-1939-04040	Neon Lamp P.C.B. Assy				1
	⚠ 4-6129-70640	Neon Lamp				1
	111-2-6220-11100	Wire Wrap Terminal				2
	POWER SUPPLY P.C.B. ASSY					
PCB3	141-0-1939-04014	Power Supply P.C.B. Assy				1
	4-2372-00060	Receptacle				2
	4-2372-00830	EC Terminal 1P				2
	111-2-6220-11100	Wire Wrap Terminal				6
	131-2-6114-00810	Cover Safety				1
C101	⚠ 4-2239-70900	Mylar	0.01μF	250V	±20%	1
R104⚠	RH1-8-3102-JZ000	Metal	18kΩ	1W	±5%	1

Ref. No.	Part No.	Description				Q'ty
	SPEED CONTROL P.C.B. ASSY					
PCB4	141-0-1939-04022	Speed Contorl P.C.B. Assy				1
VR401	4-2229-75630	Volume (B-500Ω)				1
VR402	4-2222-01050	Semi-fixed Volume (B-2kΩ)				1
VR403	4-2222-01050	Semi-fixed Volume (B-2kΩ)				1
R402	RD1-0-2251-JM000	Carbon	1kΩ	1/4W	±5%	1
	SPEED SWITCH P.C.B. ASSY					
PCB5	141-0-1939-04033	Speed Switch P.C.B. Assy				1
	4-2319-77050	Switch Push 1 Key (Speed) [S2]				1
	POWER DC P.C.B. ASSY					
PCB6	141-0-1939-04004	Power DC P.C.B. Assy				1
	4-2359-77571	Connector 1P Assy				1
	111-2-6220-11100	Wire Wrap Terminal				2
D201	DGG---W02------	Diode, W 02				1
D202	202-5-3210-12011	Zener Diode, GZA 12X				1
Q201	203-5-7340-86350	Transistor, 2SD 863				1
C201	CD4-7-7160-0000V	Electrolytic	470μF	16V		1
C202	CD4-7-6160-0000V	Electrolytic	47μF	16V		1
C203	CC1-0-3501-YEY0C	Ceramic	0.01μF	500V	+100, -0%	1
R201	RD4-7-1251-JM000	Carbon	470Ω	1/4W	±5%	1

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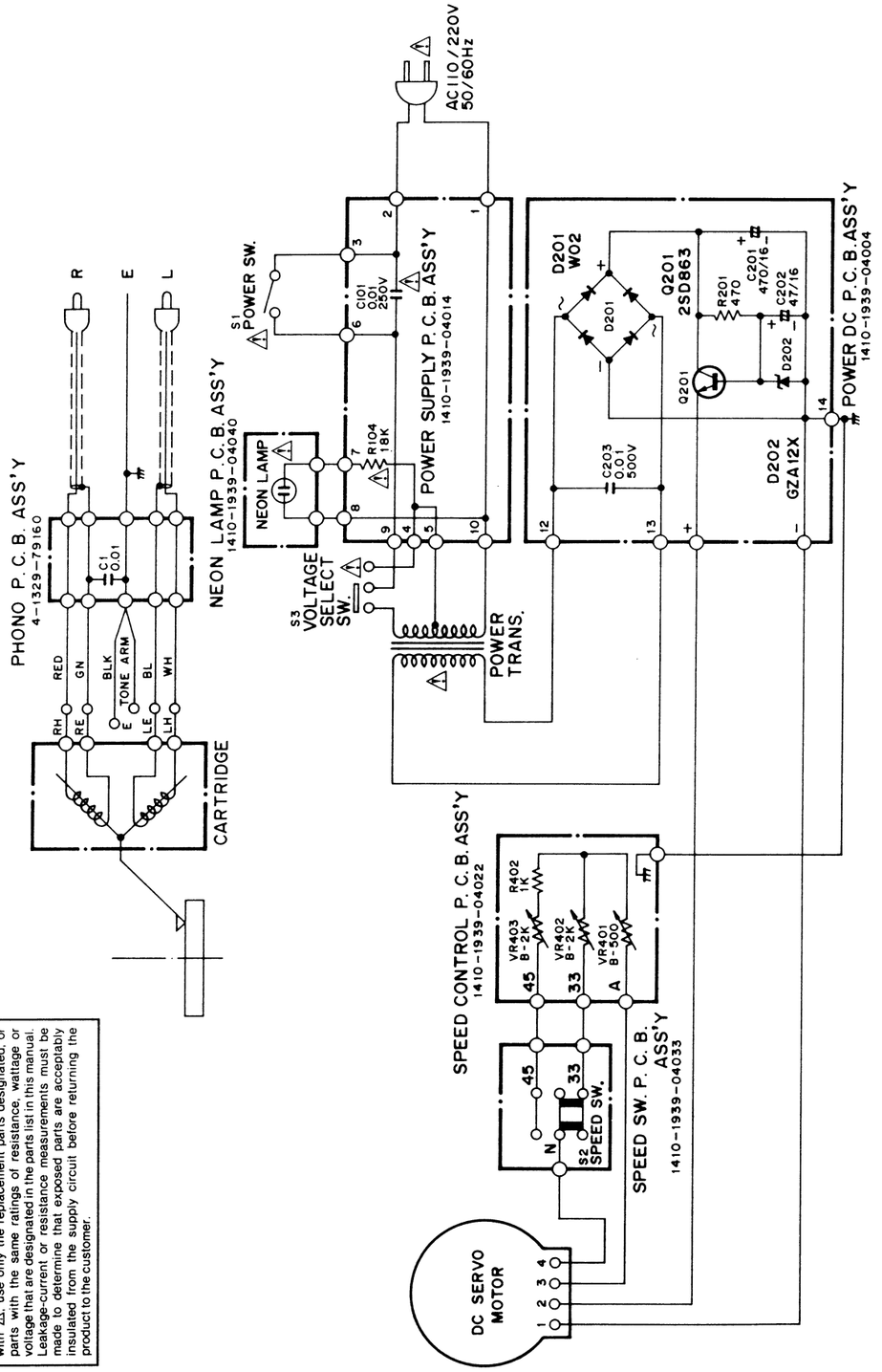
MC-Service

SCHEMATIC DIAGRAM



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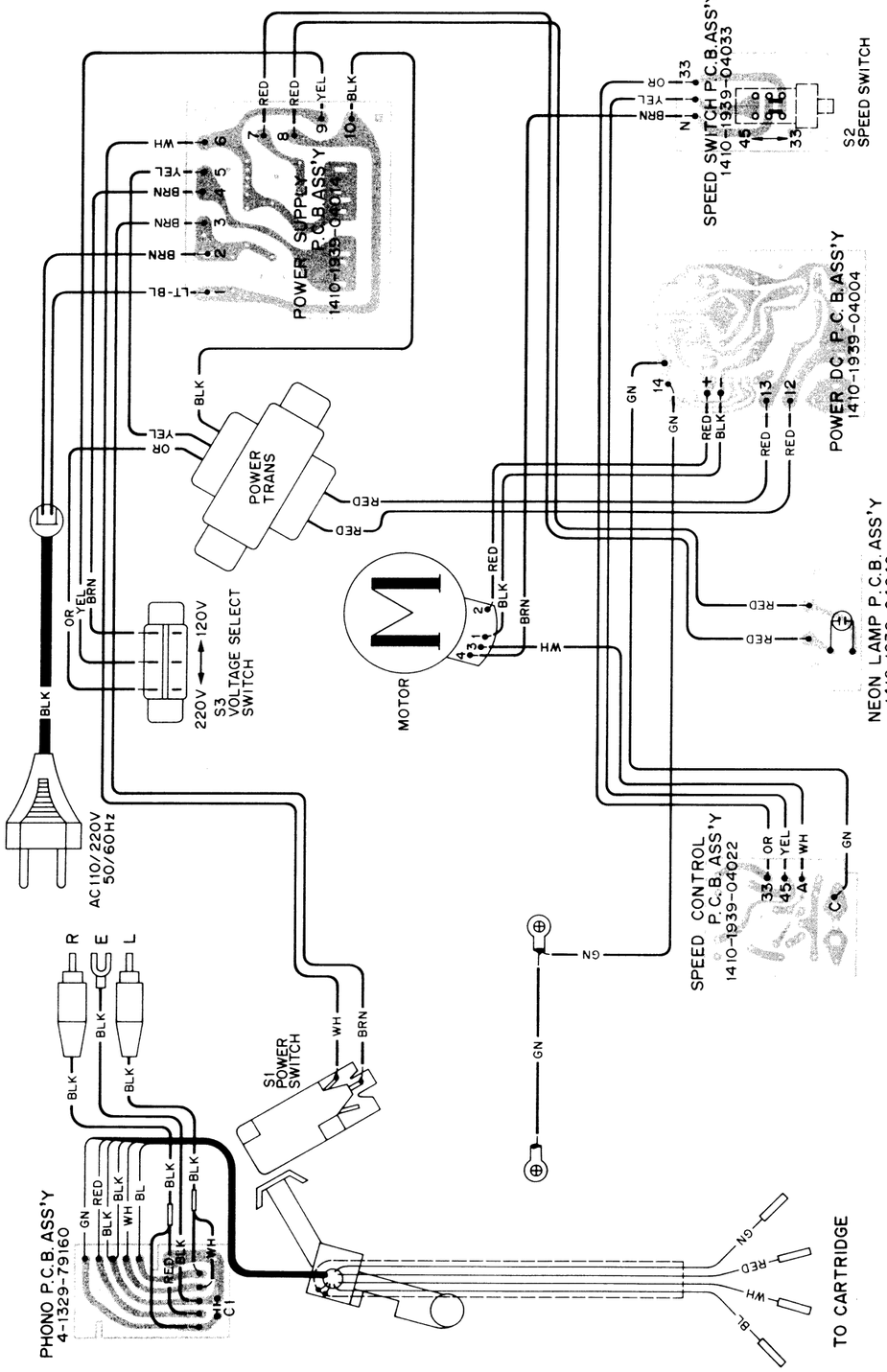
POINT TO POINT WIRING DIAGRAM



MEMO

FISHER

FISHER Hi-Fi Europa Vertriebs GmbH

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8000 München 82 — Tlx: 524033

Technisches Labor/ Qualitätskontrolle — Durchwahl –120/121

Funkstörmeßlabor — –127/128

Service-Zentrale
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- Hi-Fi/Audio — –168
- Video — –172
- Autoradio — –170
- Ersatzteillager — –155/156
- Techn. Schulung — –174

Weitere Service-Zentralen in BRD (keine Ersatzteilbestellungen)

Offenbach/ Frankfurt	Frankfurter Straße 121 6050 Offenbach	Tel: 069/88 80 45/48 Tlx: 4 12 558	Hamburg	Spaldingstraße 1 2000 Hamburg	Tel: 040/23 12 23/24 Tlx: 2 173 839
Military	Frankfurter Straße 121 6050 Offenbach	Tel: 069/88 80 45/48 Tlx: 4 12 558	Ditzingen	Max-Eyth-Straße 11 7257 Ditzingen	Tel: 07156/50 88 Tlx: 7 245 278
Düsseldorf-Erkrath	Albert-Einstein-Straße 8 4006 Erkrath 1	Tel: 0211/200 05-0 Tlx: 8 588 563	Berlin (Fisher Vertragswerkstatt)	Drewitz & Kaulbach Eisenacher Straße 53 1000 Berlin 62	Tel: 030/781 20 01 Tlx: 186 460

Unser FISHER-Team steht Ihnen jederzeit gerne zur Verfügung. Ersatzteilbestellungen wickeln Sie bitte ausschließlich mit unserer Service-Zentrale München ab.
Senden Sie uns im Garantiefall die ausgefüllte Garantiekarte ein. Bei unverkauften Lagergeräten des Fachhandels gilt als Garantienachweis eine eidesstattliche Versicherung mit eingetragener Modellbezeichnung und Geräte-Nummer oder ein Liefernachweis. Die gleiche Regelung besteht auch für Reparaturaufträge.
Bitte geben Sie unbedingt die Ersatzteil-Nummer und die Modellbezeichnung an.
Sie sparen so wertvolle Zeit. Vielen Dank.

March/'85/2,000 **Printed in Japan**